PPC
A BELDEN BRAND

2K05X
Installation Manual

XPON ONT 2GE with Wi-Fi Dual-Band

Rev 1.0

1.1 Product Description

Thanks for choosing the PPC Home Gateway Unit. All PPC terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators or cable operators. These boxes are based on the mature GPON and Gigabit EPON technology, which have high ratio of performance to price, they are highly reliable and easy to maintain, with guaranteed QoS for different service. And they are fully compliant with GPON and EPON technical regulations such as ITU-T G.984.x, IEEE802.3ah and technical requirement of EPON Equipment. Dual mode PPC ONT can detect and exchange PON mode automatically.

1.2 Application Chart

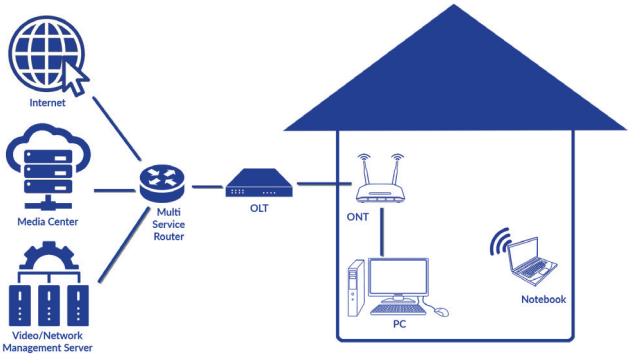

Fig 1 : **Network Architecture**

Fig 2 : **2K05X**

1.3 Technical Parameters

Technical items	2K05X(2GE with Wi-Fi Dual-Band) PPC ONT
PON interface	1 GPON/EPON interface, SC single-mode/single-fiber. GPON: uplink 1.25Gbps, downlink 2.5Gbps; EPON: symmetric 1.25Gbps.
Wavelength	Tx 1310nm, Rx 1490nm
Optical interface	SC/APC
LAN interface	2x 10/100/1000Mbps auto adaptive Ethernet interfaces.10/100M Full/Half, 1000M Full Duplex, RJ45 connector.
LED	9, POWER, INTERNET, PON, LOS, LAN1, LAN2, 2.4G, 5G, USB
Operating condition	Temperature: -5°C~55°C Humidity: 10%~90% (non-condensing)
Storing condition	Temperature :-30°C~60°C Humidity :10%~90% (non-condensing)
Power supply	DC 12V/1A
Power consumption	≤6W
Dimension	160mmx139.5mmx28.5mm(L×W×H)
Net weight	0.24Kg

1.4 Package Contents

Contents	Quantity
PPC ONT	1 pcs
Power Adapter	1 pcs
User manual	1 pcs
Cat 5E cable	1 pcs
Warranty Card	1 pcs

2.1 Installation Requirements

Installation Environment Requirements

PPC ONT equipment must be installed in the interior, and to ensure the following conditions:

- Confirmation at the PPC ONT installation at sufficient space to facilitate cooling machine.
- PPC ONT suitable operating temperature of -5°C ~ 55°C,humidity10% to 90%.
- Device workplace should avoid radio transmitters,radar stations, and high-frequency interference from power equipment.

Equipment Installation

1. Installed on the desktop
   Place the machine on a clean bench, this installation is relatively simple, you can observe the following operation:
   - Ensure the smooth workbench.
   - Around the device enough space for heat dissipation.
2. Mounted on the wall
   - Observation PPC ONT equipment chassis two cruciform recess, in accordance with the position ofthe groove, installed two screws in the wall.
   - The original selected two mounting screws gently snap into recesses aligned.
   - Slowly let go,so that the device under the supportof the screw hanging on the wall.

2.2 LED Indications

LED	Panel Marking	Status	Description
Power	POWER	On	The device is powered up.
		Off	The device is powered down.
Optical signal loss	LOS	Blink	Device does not receive optical signals.
		Off	Device has received optical signal.
Registration	PON	On	The device is registered to PON system
		Off	Device is not registered to PON system
		Blink	Device registeration is incorrect
Interface	LAN	On	Port is connected properly (LINK).
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data (ACT).
	Wi-Fi	On	Wi-Fi is enabled
		Off	Wi-Fi is disabled

Fig 4 : **ONT Back Panel**

Name	Function
PON	Connect to OLT by SC type fiber connector, single mode optical fiber cable.
LAN	Connect PC or other devices with Ethernet port by Cat5 cable, RJ-45 connector.
POWER	Connect with power adapter. DC 12V, 1A.

2LAN with Wi-Fi dual mode PPC ONT provides simple Web management function.

3.1 Default Configuration

The following is the default device configuration information.

- Local (LAN access) Username: admin , Password: PPC<last four digits of mac (in small letters)>
- LAN port management IP address: 192.168.101.1/24

3.2 Basic Configuration

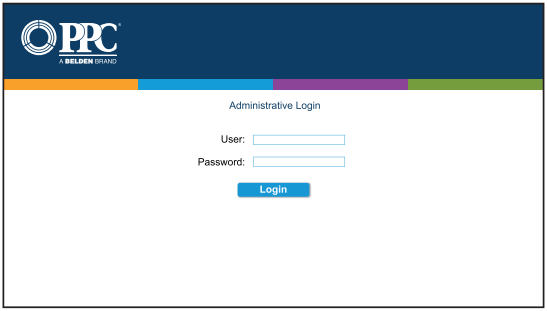

Fig 5 : **Login Interface**

Web login default username: *admin* Password: *PPC<last Four Digits of MAC (Small letters)>*

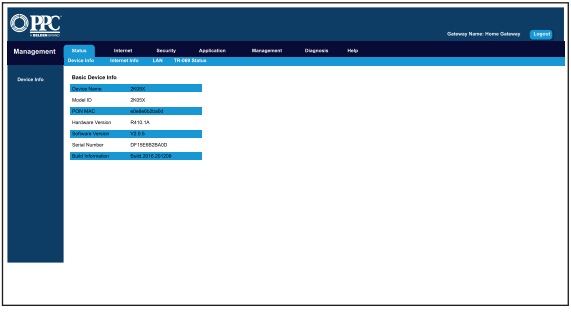

Fig 6 : **Status**

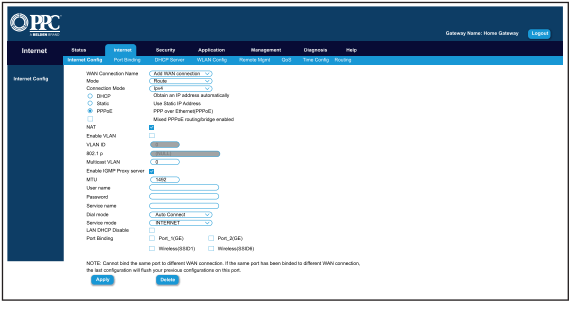

Fig 7 : **WAN Connections**

WAN connections will provide access to create/ delete/ modify the connections. From WAN connection list we can create a new WAN connection as per the requirements of the customer. All the details required for creating wan connection will be provided on the above web interface

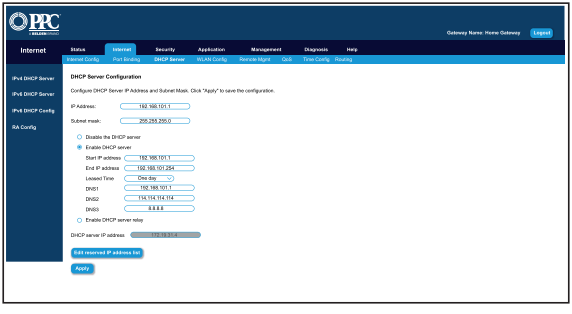

Fig 8 : **LAN setting**

IP Address and Subnet Mask: LAN port IP address and Mask.
DHCP option: Enable or disable DHCP server and configure IP address pool, DNS, etc.
Note: DHCP server changes take effect after the device is restarted.

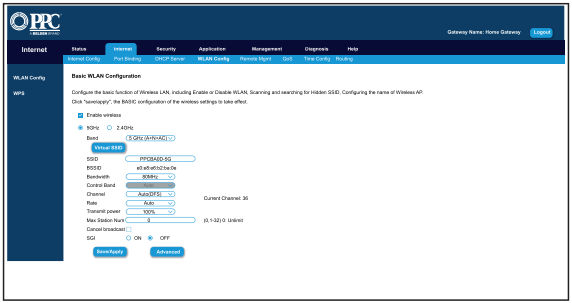

Fig 9 : **WLAN Configuration**

WLAN Basic Configuration helps us to select the wireless band (2.5 GHz & 5GHz) and also can change the parameters as per the requirement.

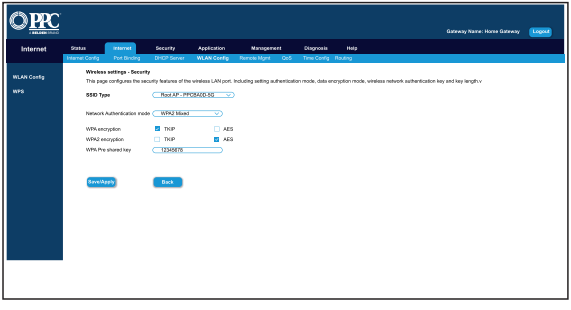

Fig 10 : **WLAN Security Setting**

WLAN Security Settings helps us to configure the Wi-Fi key encryption and authentication mode of the selected SSID.

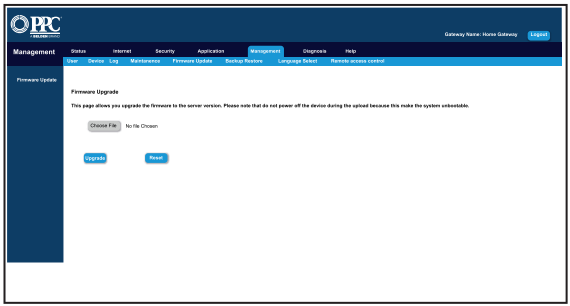

Fig 11 : **Firmware Upgradation**

The above web page will helps us to do upgrade the software/firmware of ONT

Warranty term & conditions:
https://www.ppc-online.com/hubfs/Legal Policies/actives-product-warranty.pdf

End of life policy:
https://www.ppc-online.com/hubfs/Legal Policies/actives-end-of-life-policy.pdf

Service level agreement:
https://www.ppc-online.com/hubfs/Legal Policies/actives-service-level-agreement.pdf